Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

CENTRALPNEUMATIC®

dual media abrasive blaster

Visit our website at: http://www.harborfreight.com
Email our technical support at: productsupport@harborfreight.com

ITEM 61439

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools.
Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein.
Tools required for assembly and service may not be included.

⚠WARNING

**Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.**

SAFETY

SETUP

OPERATION

MAINTENANCE

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WARNING SYMBOLS AND DEFINITIONS	
⚠	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠ DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

IMPORTANT SAFETY INSTRUCTIONS

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

WARNING – When using tools, basic precautions should always be followed, including the following:

General

To reduce the risks of electric shock, fire, and injury to persons, read all the instructions before using the tool.

Work Area

1. **Keep the work area clean and well lighted.** Cluttered benches and dark areas increase the risks of electric shock, fire, and injury to persons.
2. **Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** The tool is able to create sparks resulting in the ignition of the dust or fumes.
3. ***Keep bystanders, children, and visitors away while operating the tool.*** Distractions are able to result in the loss of control of the tool.

Personal Safety

1. ***Stay alert. Watch what you are doing and use common sense when operating the tool. Do not use the tool while tired or under the influence of drugs, alcohol, or medication.*** A moment of inattention while operating the tool increases the risk of injury to persons.
2. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair increases the risk of injury to persons as a result of being caught in moving parts.
3. **Avoid unintentional starting. Be sure the switch is off before connecting to the air supply.** Do not carry the tool with your finger on the switch or connect the tool to the air supply with the switch on.
4. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
5. **Use safety equipment.** A dust mask, non-skid safety shoes and a hard hat must be used for the applicable conditions.
6. **Always wear eye protection.** Wear ANSI-approved safety goggles.
7. **Always wear hearing protection when using the tool.** Prolonged exposure to high intensity noise is able to cause hearing loss.
8. **Wear heavy-duty blast gloves during use.**

Tool Use and Care

1. ***Use clamps or another practical way to secure and support the workpiece to a stable platform.*** Holding the work by hand or against the body is unstable and is able to lead to loss of control.
2. **Do not force the tool.** Use the correct tool for the application. The correct tool will do the job better and safer at the rate for which the tool is designed.
3. **Do not use the tool if the switch does not turn the tool on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
4. **Disconnect the tool from the air source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool unintentionally. Turn off and detach the air supply, safely discharge any residual air pressure, and release the throttle and/or turn the switch to its off position before leaving the work area.
5. ***Store the tool when it is idle out of reach of children and other untrained persons.*** A tool is dangerous in the hands of untrained users.
6. **Maintain the tool with care.** Keep a cutting tool sharp and clean. A properly maintained tool, with sharp cutting edges reduces the risk of binding and is easier to control.
7. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that affects the tool's operation.** If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools. There is a risk of bursting if the tool is damaged.
8. **Use only accessories that are identified by the manufacturer for the specific tool model.** Use of an accessory not intended for use with the specific tool model, increases the risk of injury to persons.
9. DO NOT DROP TANK(S), RISK OF EXPLOSION.

Service

1. ***Tool service must be performed only by qualified repair personnel.***
2. **When servicing a tool, use only identical replacement parts. Use only authorized parts.**

Air Source

1. **Never connect to an air source that is capable of exceeding 200 psi.** Over pressurizing the tool may cause bursting, abnormal operation, breakage of the tool or serious injury to persons. Use only clean, dry, regulated compressed air at the rated pressure or within the rated pressure range as marked on the tool. Always verify prior to using the tool that the air source has been adjusted to the rated air pressure or within the rated air-pressure range.

2. ***Never use oxygen, carbon dioxide, combustible gases or any bottled gas as an air source for the tool.*** Such gases are capable of explosion and serious injury to persons.

SAVE THESE INSTRUCTIONS.

Symbols and Specific Safety Instructions

Symbol Definitions

Symbol	Property or statement
n_o	No-load speed
.../min	Revolutions or reciprocation per minute
PSI	Pounds per square inch of pressure
ft-lb	Foot-pounds of torque
BPM	Blows per minute
CFM	Cubic Feet per Minute flow
SCFM	Cubic Feet per Minute flow at standard conditions

Symbol	Property or statement
NPT	National pipe thread, tapered
NPS	National pipe thread, straight
	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved eye protection.
	WARNING marking concerning Risk of Hearing Loss. Wear hearing protection.
	WARNING marking concerning Risk of Respiratory Injury. Wear NIOSH-approved dust mask/respirator.
	WARNING marking concerning Risk of Explosion.

Specific Safety Instructions

1. The warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.
2. WARNING: This product, when used for abrasive blasting and similar applications, produces chemicals known to the State of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code § 25249.5, *et seq.*)
3. WARNING: The brass components of this product contain lead, a chemical known to the State of California to cause birth defects (or other reproductive harm). (California Health & Safety Code § 25249.5, *et seq.*)
4. Only use with accessories rated to handle the forces exerted by this tool during operation. Other accessories not designed for the forces generated may break and forcefully launch pieces.
5. Attach all accessories properly to the tool before connecting the air supply. A loose accessory may detach or break during operation.

6. Obey the manual for the air compressor used to power this tool.
7. Install an in-line shutoff valve to allow immediate control over the air supply in an emergency, even if a hose is ruptured.
8. Use this tool with both hands only. Using tools with only one hand can result in loss of control.
9. Do not lay the tool down until it has come to a complete stop. Moving parts can grab the surface and pull the tool out of your control.

Silicosis Safety Measures

DO NOT USE SAND!

Abrasive blasting with sand (which contains crystalline silica) can cause silicosis (a serious lung disease), cancer and death. To reduce crystalline silica exposures in the workplace and prevent silicosis and silicosis-related deaths:

1. Prohibit silica sand (or other substances containing more than 1% crystalline silica) as an abrasive blasting material and substitute less hazardous materials.
2. Conduct air monitoring to measure worker exposures.
3. Use containment methods such as blast-cleaning machines and cabinets to control the hazard and protect adjacent workers from exposure.
4. Practice good personal hygiene to avoid unnecessary exposure to silica dust.
5. Wear washable or disposable protective clothes at the work site. Shower and change into clean clothes before leaving the work site to prevent contamination of cars, homes and other work areas. Avoid skin exposure.
6. Always wear a NIOSH-approved respirator and safety goggles. Ventilate the work area properly.
7. Provide periodic medical examinations for all workers who may be exposed to crystalline silica.
8. Post signs to warn workers about the hazard and to inform them about required protective equipment.
9. Provide workers with training that includes information about health effects, work practices and protective equipment for crystalline silica.
10. Report all cases of silicosis to State health departments and to OSHA or the Mine Safety and Health Administration (MSHA).

Vibration Precautions

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
3. Wear suitable gloves to reduce the vibration effects on the user.
4. Use tools with the lowest vibration when there is a choice.
5. Include vibration-free periods each day of work.
6. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.
7. To reduce vibration, maintain tool as explained in this manual. If abnormal vibration occurs, stop immediately.

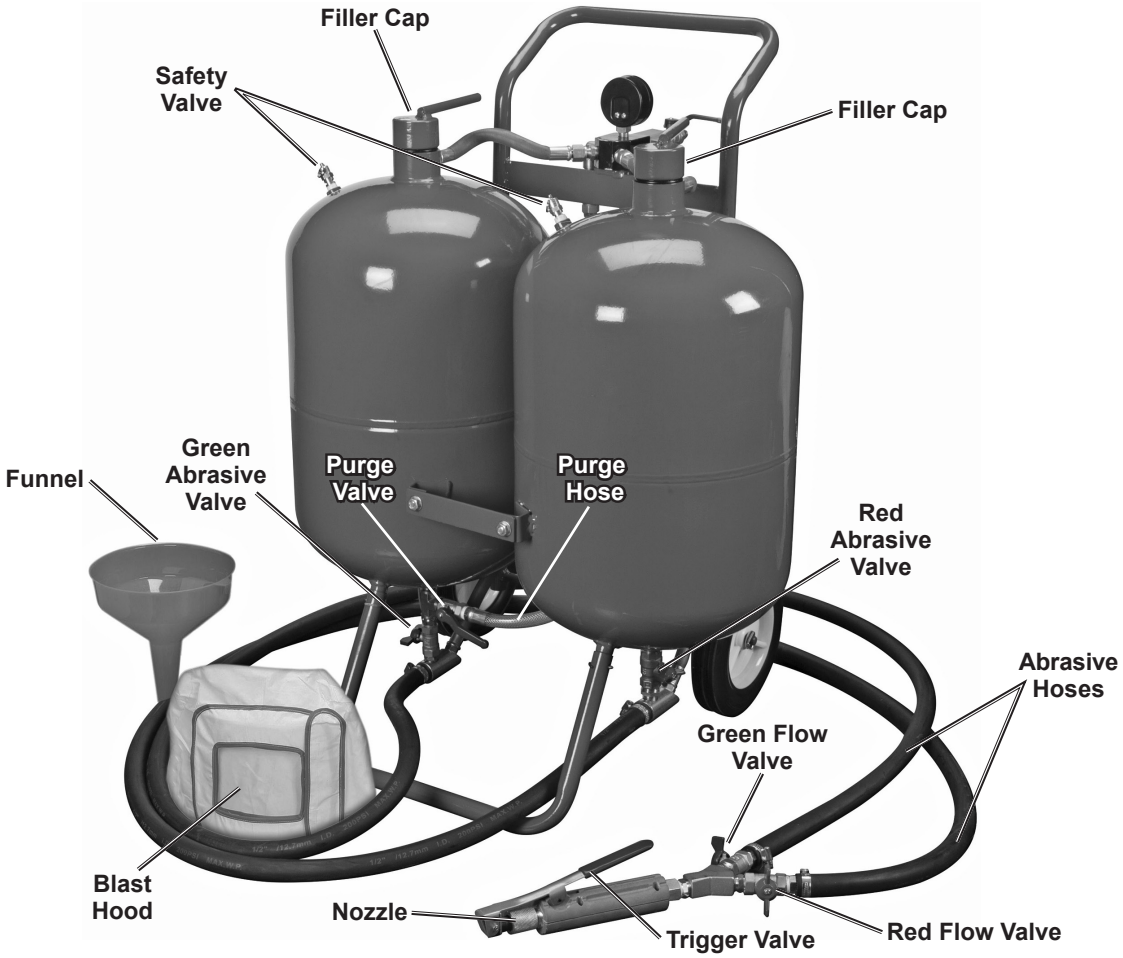
SAVE THESE INSTRUCTIONS.

Functional Description

Specifications

Maximum Air Pressure	125 PSI
Air Inlet	1/4"–18 NPT
Required Air Hose	3/8"
Average Air Consumption	6 CFM @ 60 PSI 25 CFM @ 125 PSI
Abrasive Capacity	100 lb per Tank

Components and Controls



Back View

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Note: This air tool may be shipped with a protective plug covering the air inlet. Remove this plug before set up.

Assembly

1. Place the two Wheels (2) onto the axle ends of the Axle/Frame Assembly (5). Secure in place using two Cotter Pins (3). Refer to Figure A.

2. Slide the two ends of the Handle (6) onto the swaged tube tops of the Axle/Frame Assembly and secure in place with two Bolts (7), Washers (8), and Nuts (9).

3. Slide the two ends of the Front Leg (4) over the stubs on the lower front portion of the Tanks (1A, 1B). Secure in place using two Cotter Pins (3).

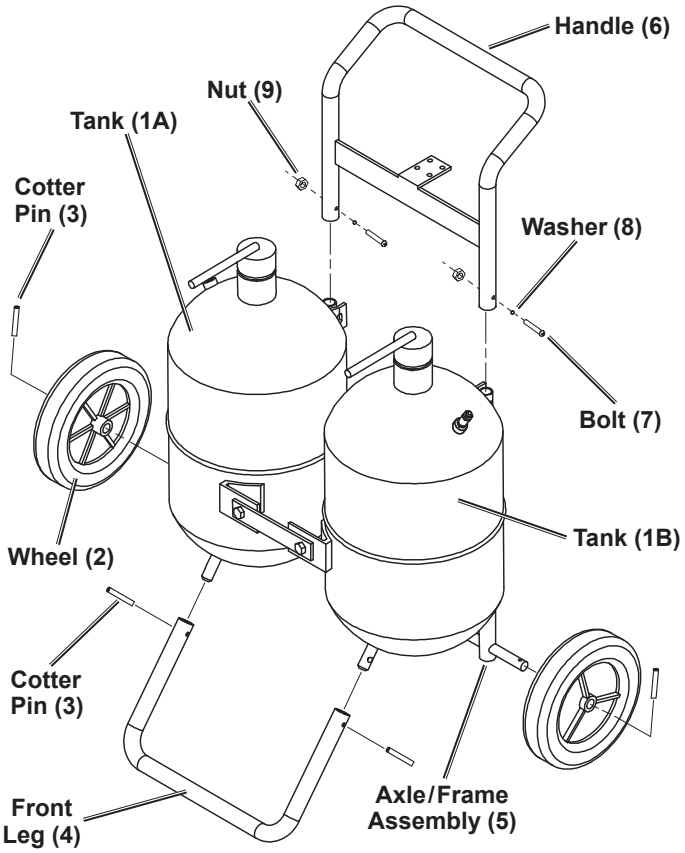


Figure A

4. Attach Inlet Manifold (15) to the mounting bracket on the crossbar of the Handle (6) using four Cap Screws (34). Refer to Figure B.

5. Wrap the threads of the two male fittings on the front of the Inlet Manifold with thread sealer tape. Thread the female fittings of the two Pressure Hoses (14) onto the male fittings on the Inlet Manifold as shown and tighten. **Do not overtighten.**

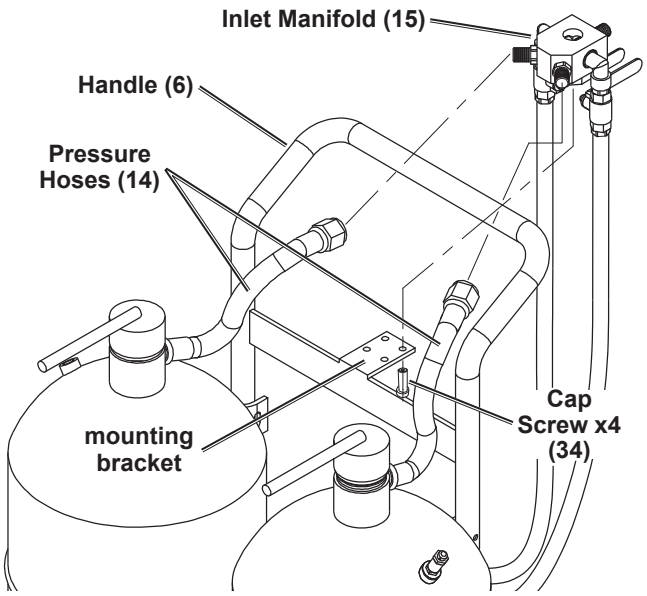


Figure B

Assembly (continued)

6. Wrap the threads of the Air Pressure Gauge (16) with thread sealer tape. Screw the Gauge into the threaded opening on top of the Inlet Manifold (15) and tighten. **Do not overtighten.** Refer to Figure C.

7. Wrap the threads of the Nipple Connector on the back side of the Inlet Manifold with thread sealer tape. Screw the Water Trap Filter/Air Supply Valve (17, 19) assembly onto the Connector and tighten. **Do not overtighten.**

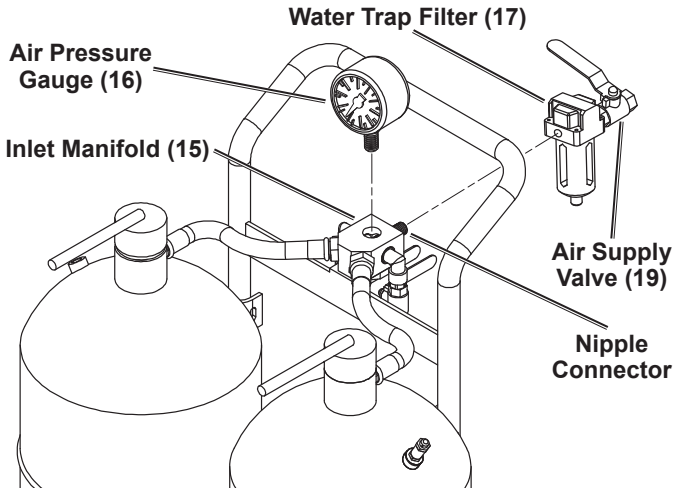


Figure C

8. Slide a Hose Clamp (22) onto the free end of the Abrasive Hose connected to the Green Flow Valve (35), then attach to the barbed fitting of the Abrasive Outlet Manifold connected to the Green Abrasive Valve (35A). Tighten the Hose Clamp to secure in place. Refer to Figure D.

9. Slide a Hose Clamp onto the free end of the remaining Abrasive Hose and attach to the barbed fitting of the Abrasive Outlet Manifold connected to the Red Abrasive Valve (24A). Secure with the Hose Clamp.

Note: It is critical that the Abrasive Hoses be connected correctly for proper Blaster operation. Ensure that the Green and Red Flow Valves at the Blast Gun end are connected to the corresponding Green and Red Abrasive Valves respectively at the Tank end.

10. Wrap the threads of the Nipple Connector on the Y-Connector (25) with thread sealer tape. Screw the Blast Gun (26) onto the Connector and tighten. **Do not overtighten.**

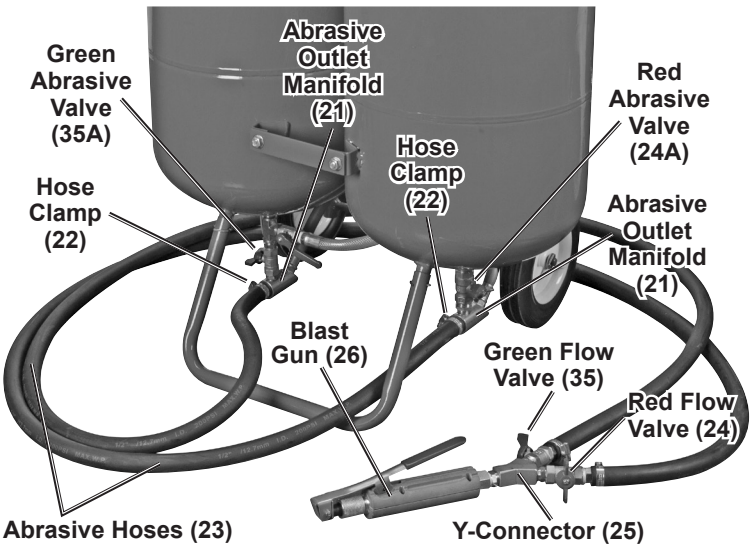


Figure D

Air Supply

⚠WARNING

TO PREVENT SERIOUS INJURY FROM EXPLOSION:
Use only clean, dry, regulated, compressed air to power this Blaster.
Do not use oxygen, carbon dioxide, combustible gases,
or any other bottled gas as a power source for this Blaster.

1. Incorporate a filter, regulator with pressure gauge, dryer, in-line shutoff valve, and quick coupler for best service, as shown on Figure E on page 10 and Figure F on page 11. **An in-line shutoff ball valve is an important safety device because it controls the air supply even if the air hose is ruptured. The shutoff valve should be a ball valve because it can be closed quickly.**

Note: An oiler system should not be used with this Blaster. The oil will mix with the material being propelled, causing poor results.

2. Attach an air hose to the compressor's air outlet. Connect the air hose to the Air Supply Valve of the Blaster. Other components, such as a coupler plug and quick coupler, will make operation more efficient, but are not required.

⚠WARNING! TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Do not install a female quick coupler on the tool. Such a coupler contains an air valve that will allow the air tool to retain pressure and operate accidentally after the air supply is disconnected.

Note: Air flow, and therefore Blaster performance, can be hindered by undersized air supply components. The air hose must be long enough to reach the work area with enough extra length to allow free movement while working.

3. Close the Blaster's valves.

4. Close the in-line shutoff valve between the compressor and the Blaster.

5. Turn on the air compressor according to the manufacturer's directions and allow it to build up pressure until it cycles off.

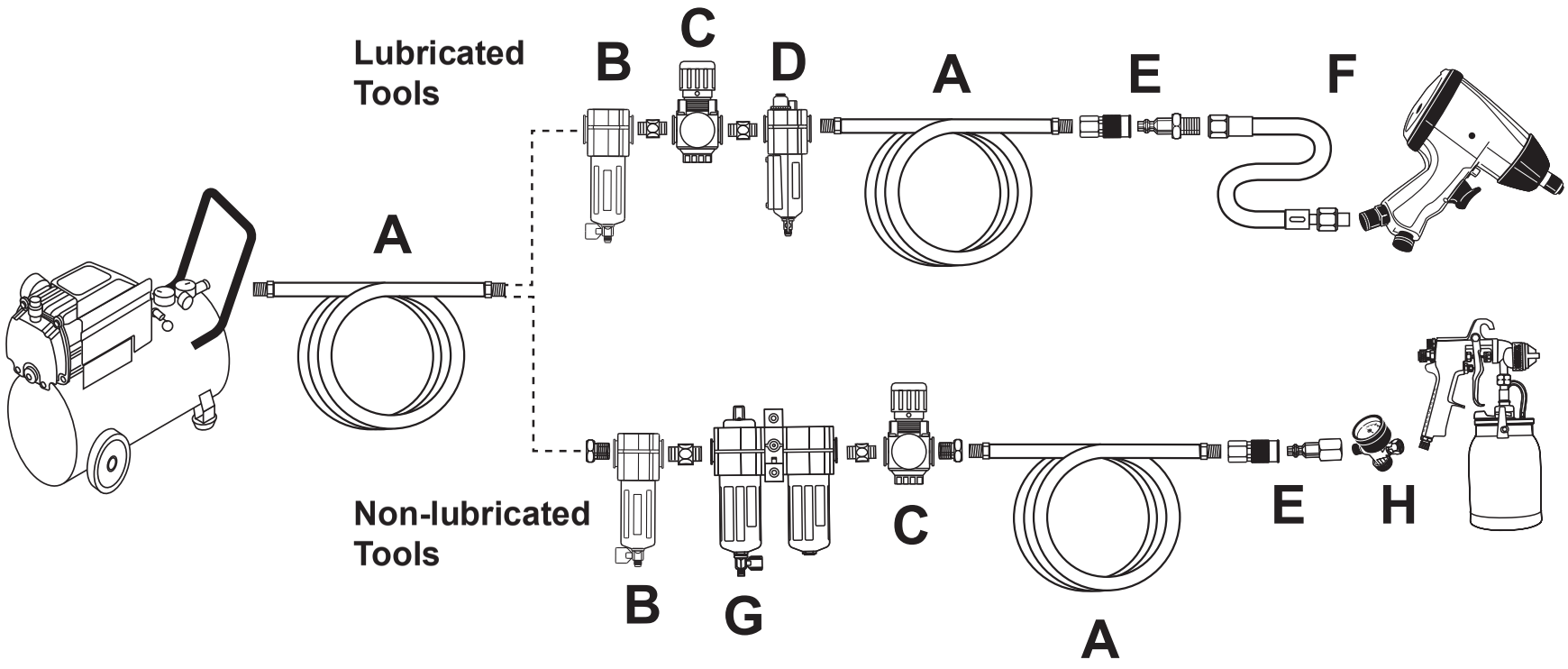
6. Adjust the air compressor's output regulator so that the air output is enough to properly power the Blaster, but the output will not exceed the Blaster's maximum air pressure at any time. Adjust the pressure gradually, while checking the air output gauge to set the right pressure range.

7. Inspect the air connections for leaks. Repair any leaks found.

8. If the Blaster will not be used at this time, turn off and detach the air supply, safely discharge any residual air pressure, and close the valves to prevent accidental operation.

Note: Residual air pressure should not be present after the tool is disconnected from the air supply. However, it is a good safety measure to attempt to discharge the tool in a safe fashion after disconnecting to ensure that the tool is disconnected and not powered.

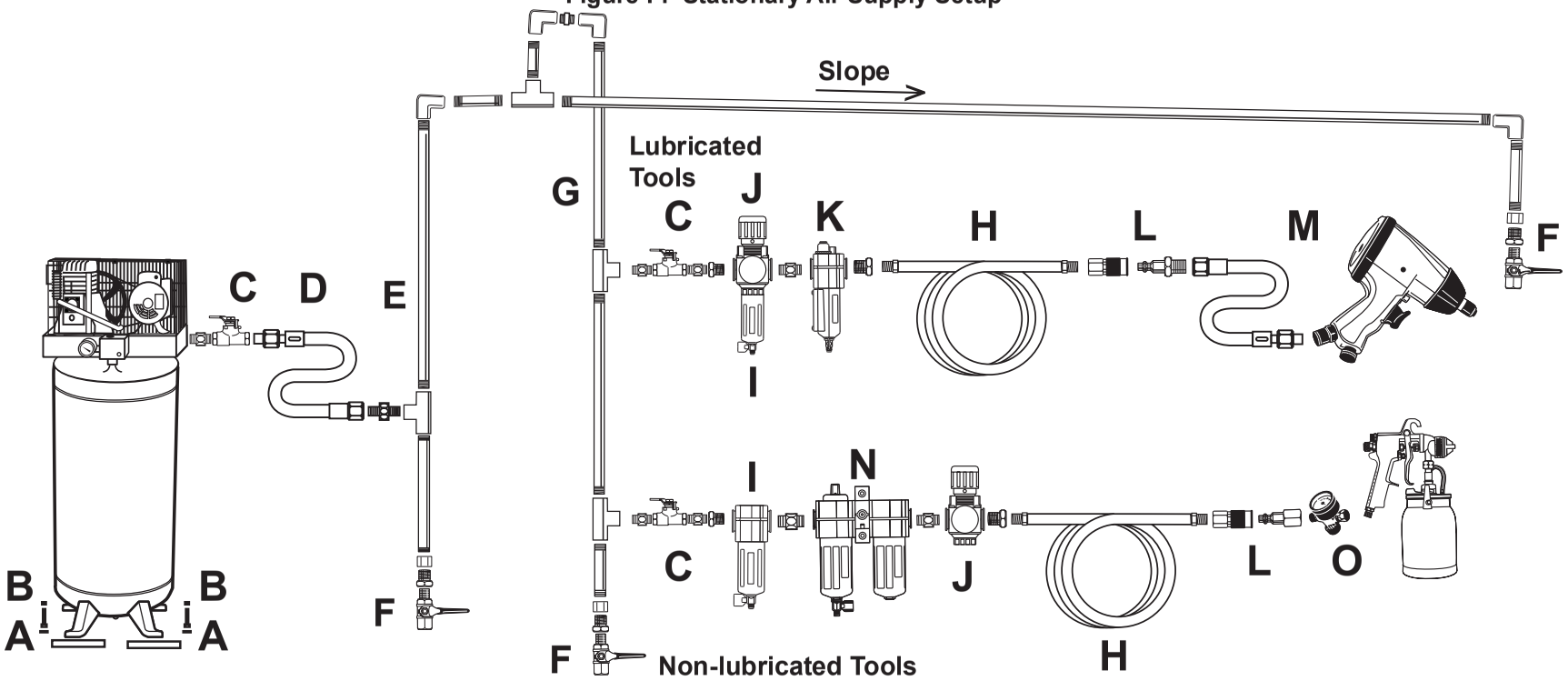
Figure E: Portable Air Supply Setup



	Description	Function
A	Air Hose	Connects air to tool
B	Filter	Prevents dirt and condensation from damaging tool or workpiece
C	Regulator	Adjusts air pressure to tool
D	Lubricator (optional)	For air tool lubrication
E	Coupler and Plug	Provides quick connection and release
F	Leader Hose (optional)	Increases coupler life
G	Air Cleaner / Dryer (optional)	Prevents water vapor from damaging workpiece
H	Air Adjusting Valve (optional)	For fine tuning airflow at tool

For technical questions, please call 1-888-866-5797.

Figure F: Stationary Air Supply Setup



	Description	Function
A	Vibration Pads	For noise and vibration reduction
B	Anchor Bolts	Secures air compressor in place
C	Ball Valve	Isolates sections of system for maintenance
D	Isolation Hose	For vibration reduction
E	Main Air Line - 3/4″ minimum recommended	Distributes air to branch lines
F	Ball Valve	To drain moisture from system
G	Branch Air Line -1/2″ minimum recommended	Brings air to point of use
H	Air Hose	Connects air to tool
I	Filter	Prevents dirt and condensation from damaging tool or workpiece
J	Regulator	Adjusts air pressure to tool
K	Lubricator (optional)	For air tool lubrication
L	Coupler and Plug	Provides quick connection and release
M	Leader Hose (optional)	Increases coupler life
N	Air Cleaner / Dryer (optional)	Prevents water vapor from damaging workpiece
O	Air Adjusting Valve (optional)	For fine tuning airflow at tool

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Inspect tool before use, looking for damaged, loose, and missing parts. If any problems are found, do not use tool until repaired.

Tool Set Up–Loading Blast Media

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Close all Valves, detach the air supply, safely discharge any residual air pressure in the tool, and close all Valves again before performing any procedure in this section.

TO PREVENT SERIOUS INJURY:
Do not adjust or tamper with any control or component in a way not specifically explained within this manual. Improper adjustment can result in tool failure or other serious hazards.

WARNING! Do not use sand or other blasting materials that contain crystalline silica.

Note: Use only dry and clean abrasives to avoid clogging the Blaster.

Note: Proper Nozzle size depends on grit of blast media used. Change the Nozzle as needed to suit the abrasive. Refer to *Nozzle Replacement* on page 16.

1. **Wear protective gear including a NIOSH-approved respirator.**
2. Close the Air Supply Valve, Red and Green Abrasive Valves, Purge Valve, then the Red and Green Throttle Valves.
3. Pull the ring on each Safety Valve out to make sure its Tank is not pressurized, then release it. Check the Air Pressure Gauge to make sure it reads "0" PSI.
4. Remove Filler Caps from both Tanks.
5. Insert Funnel into Soda Tank (Green Valves) and pour in sodium bicarbonate or another blast media (up to 3/4 full). Insert Funnel into Abrasive Tank (Red Valves) and pour in chosen abrasive blast media (up to 3/4 full). Do not use sodium bicarbonate blast media in the Abrasive Tank. **Do not fill more than 3/4 of either Tank.**

Note: If humidity is 90% or more, only fill the Tanks halfway and check the Water Trap more frequently during operation.

6. Re-attach Filler Caps securely, making sure the O-Rings are in place.

Workpiece and Work Area Set Up

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. If possible, place the workpiece inside a blast cabinet. Otherwise, isolate the workpiece to make sure no damage can occur to nearby walls, tools, personal property, etc.
3. Route the Abrasive Hoses along a safe route to reach the work area without creating a tripping hazard or exposing the Hoses to possible damage. The Abrasive Hoses must be long enough to reach the work area with enough extra length to allow free movement while working.
4. Secure loose workpieces using a vise or clamps (not included) to prevent movement while working.
5. There must not be hazardous objects (such as utility lines or foreign objects) nearby that will present a hazard while working.

General Operating Instructions

WARNING! Wear ANSI-approved safety goggles and NIOSH-approved respirator under Safety Hood, and heavy-duty blast gloves, when operating the Blaster.

1. To protect the compressor and its engine or motor from damage by abrasive or dust from abrasive blasting, keep the compressor upwind of the Blaster or in a separate room.

2. **Close the Air Supply Valve, Red and Green Abrasive Valves, Purge Valve, and Red and Green Throttle Valves, <u>then</u> connect and turn on the air supply.**

3. Open the Air Supply Valve and Red and Green Throttle Valves. The Tanks will begin to pressurize.

4. Check for any air leaks at the Filler Caps and along all hose fittings.
   a. If leaks are observed, shut off the air compressor.
   b. Use the Safety Valves to release any remaining pressure, close the Air Supply Valve and Red and Green Throttle Valves.
   c. Repair the leaks, then turn on the air compressor and resume the operation.

5. Open the Red and Green Abrasive Valves.

<u>Note:</u> At this stage the separate Soda Blasting and Abrasive Blasting systems are adjusted individually to provide optimum flow and most efficient use of blast media.

6. To adjust the Soda Blasting system:
   a. Grip the Blast Gun firmly with both hands. Open the Green Flow Valve fully and completely close the Red Flow Valve. Refer to Figure G.
   b. Point the Blast Gun at the workpiece so that the blast media will strike the surface of the work at about a 45° angle.
   c. Squeeze the Trigger Valve to release the blast media.

<u>Note:</u> The flow rate of the blast media may be irregular when the unit is first started. Provided the blast media is dry, the flow rate will stabilize in approximately one minute.

   d. Adjust the Green Abrasive Valve to increase or decrease the blast media flow rate.
   e. Adjust the Green Throttle Valve on the Soda Tank side to regulate the total air flow and pressure at the Blast Gun.
   f. To stop the blasting operation, release the Trigger Valve.

7. To adjust the Abrasive Blasting system:
   a. Grip the Blast Gun firmly with both hands. Open the Red Flow Valve fully and completely close the Green Flow Valve. Refer to Figure G.
   b. Point the Blast Gun at the workpiece so that the abrasive will strike the surface of the work at about a 45° angle.
   c. Squeeze the Trigger Valve to release the abrasive.

<u>Note:</u> The flow rate of the abrasive may be irregular when the unit is first started. Provided the abrasive is dry, the flow rate will stabilize in approximately one minute.

   d. Adjust the Red Abrasive Valve to increase or decrease the abrasive flow rate.
   e. Adjust the Red Throttle Valve on the Abrasive Tank side to regulate the total air flow and pressure at the Blast Gun.
   f. To stop the blasting operation, release the Trigger Valve.

<u>NOTICE:</u> Do not attempt to regulate the air/blast media mixture discharge rate with the Trigger Valve. Doing so will ruin it.

<u>CAUTION!</u> TO PREVENT INJURY FROM TOOL OR ACCESSORY FAILURE:
Do not exceed the tool's maximum air pressure rating.
If the tool still does not have sufficient force at maximum pressure and sufficient airflow, then a larger tool may be required.

8. The Blast Gun may now be adjusted to deliver only soda blast media, only abrasive blast media, or a mixture of the two in any ratio desired. Refer to Figure G.

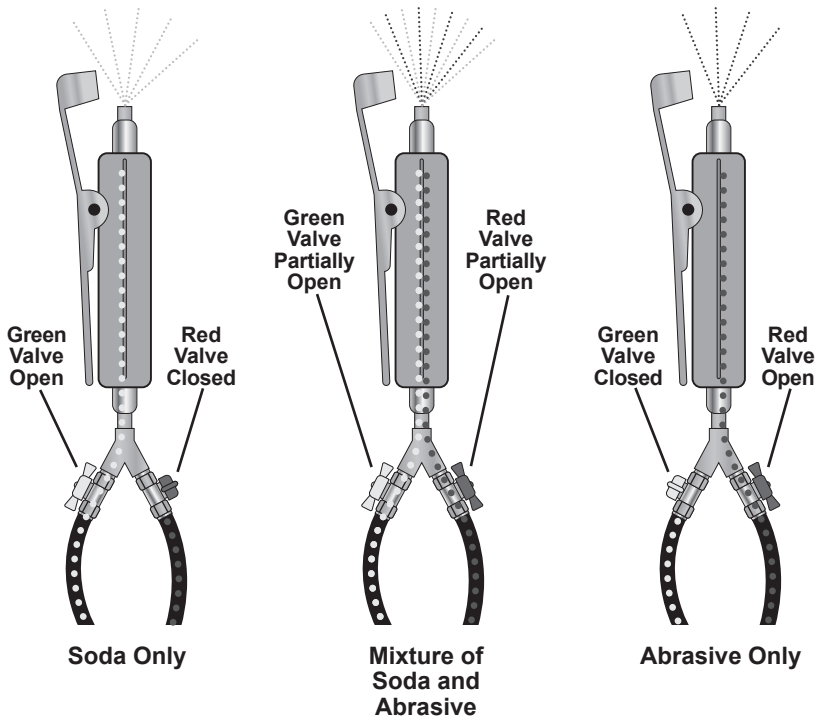


Figure G: Blast Media Selection Settings

General Operating Instructions (continued)

9. Move the Blast Gun in a circular or right to left motion until the desired finish on the workpiece has been achieved.

Note: The impact pattern of the blast is affected by the output pressure and the distance from the workpiece.

10. Periodically check the Water Trap for excessive water build up. If necessary, hold a container beneath the Water Trap and press the button located at the bottom of the Water Trap to drain the water.

After Blasting:

WARNING! Keep the Blast Gun pointed in a safe direction until the Blaster is completely depressurized.

11. Shut off the air compressor.

12. Close the Air Supply Valve, Red and Green Abrasive Valves, then the Throttle Valves. Fully open the Red and Green Flow Valves.

13. Point the Blast Gun in a safe direction and squeeze the Trigger Valve fully. Allow blast media and any compressed air to leave the Abrasive Hoses and Blast Gun. Release the Trigger Valve.

14. If sodium bicarbonate blast media was used, any blast media left in the Soda Tank MUST be drained from the Tank to prevent leftover soda from combining with moisture in the Tank and clogging the passageways at the bottom. To drain the Tank:
    a. Place the unattached end of the Purge Hose (27) into a bucket or box of sufficient size and cover with a rug or blanket.
    b. Carefully open the Purge Valve (27A) allowing the leftover sodium bicarbonate blast media to flow into the container.

15. Pull the ring on each Safety Valve out to make sure its Tank is not pressurized, then release it. Check that the Pressure Gauge reads "0" PSI.

16. Disconnect the compressor air hose from the Air Inlet.

17. If necessary, empty the Abrasive Tank of remaining abrasive.

18. Clean external surfaces with a clean, dry cloth. Then store indoors out of children's reach.

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Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Close all Valves, detach the air supply, safely discharge any residual air pressure in the tool, and close all Valves again before performing any procedure in this section.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:
Do not use damaged equipment. If abnormal noise, vibration, or leaking air occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

Note: These procedures are in addition to the regular checks and maintenance explained as part of the regular operation of the air-operated tool.

1. **BEFORE EACH USE,** inspect the general condition of the Blaster. Check for:
   - loose hardware or housing
   - misalignment or binding of moving parts
   - cracked or broken parts
   - any other condition that may affect its safe operation.
2. **Daily - Air Supply Maintenance:**
   Every day, maintain the air supply according to the component manufacturers' instructions. Drain the moisture filter regularly. Performing routine air supply maintenance will allow the tool to operate more safely and will also reduce wear on the tool.
3. When re-using abrasive, sharp edges of abrasive particles eventually become rounded and lose cutting ability. At this point, replace the abrasive.
4. The parts of the tool that require frequent wear inspection and occasional replacement are those that carry the air/abrasive mixture. Pay particular attention to the Abrasive Hoses, O-Rings, Abrasive Valves, and Blast Gun components (Trigger Valve, Nozzle), as they will wear out much more quickly than the other pieces.

CAUTION! Air leaks in any of the above mentioned parts need to be repaired before use.

5. **Abrasive Hose inspection:**
   When new, the Abrasive Hoses have 1/2" ID. The Abrasive Hoses will need to be replaced when their side walls develop leaks or show blisters on the surface.

WARNING! The Abrasive Hoses could have residual abrasive or suddenly burst. Point the Blast Gun in a safe direction and wear all safety gear when doing this test.

   a. **Close the Air Supply Valve, Red and Green Abrasive Valves, and Red and Green Throttle Valves, then release the Trigger Valve. Then connect and turn on the air supply.**
   b. Adjust the air pressure to 60-125 PSI.
   c. Open the Air Supply Valve.
   d. Open the Red and Green Throttle Valves.
   e. Then, run your fingers along the length of both Abrasive Hoses. An enlarged spot (or bubble) indicates a weakened section of the Abrasive Hose. **Do not use the Blaster if this problem is present - replace the entire Abrasive Hose first.**

Nozzle Replacement

To change Blast Gun Nozzle size to suit the blast media being used or to replace a worn Nozzle, use the following procedure:

a. Unscrew and remove the Nozzle Cap Nut.

b. Remove the old Nozzle.

c. Position the Nozzle Gasket against the Adapter.

d. Position the replacement Nozzle against the Nozzle Gasket.

e. Screw the Nozzle Cap Nut back onto the Adapter to secure the Nozzle Gasket and Nozzle in place.

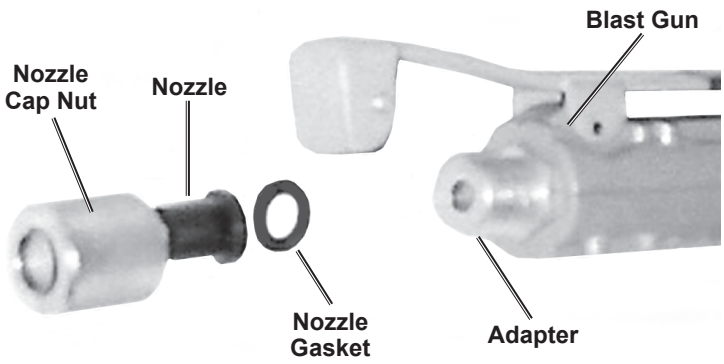

Figure H

Troubleshooting

1. Excess moisture will cause the blast media to slow or stop flowing through the Abrasive Outlet Manifolds. To correct, check the blast media by pouring a 6" cone of blast media on dry newspaper. After several minutes, remove the blast media from the newspaper. Do not use the blast media if the newspaper is moist.

2. Poor or irregular flow of the blast media may also be due to low air pressure or a worn Blast Gun Nozzle. To correct, increase the air pressure (to no more than 125 PSI) and/or replace the worn Nozzle.

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Parts List

Part	Description	Qty
1A	Soda Tank	1
1B	Abrasive Tank	1
2	Wheel	2
3	Cotter Pin	4
4	Front Leg	1
5	Axle/Frame Assembly	1
6	Handle	1
7	Bolt	4
8	Washer	4
9	Nut	4
10	Safety Valve	2
11	O-Ring	2
12	Filler Cap	2
13	Nipple Connector 3/8" x M14-1.5	4
13A	Nipple Connector 3/8" x 3/8"	10
13B	Nipple Connector 3/8" x 1/2"	2
13C	Nipple Connector 1/2" x 1/2"	1
13D	Hose Barb 3/8"	2
14	Pressure Hose 3/8"	2
15	Inlet Manifold	1
16	Air Pressure Gauge	1
17	Water Trap Filter	1
18	Elbow Connector 3/8"	2

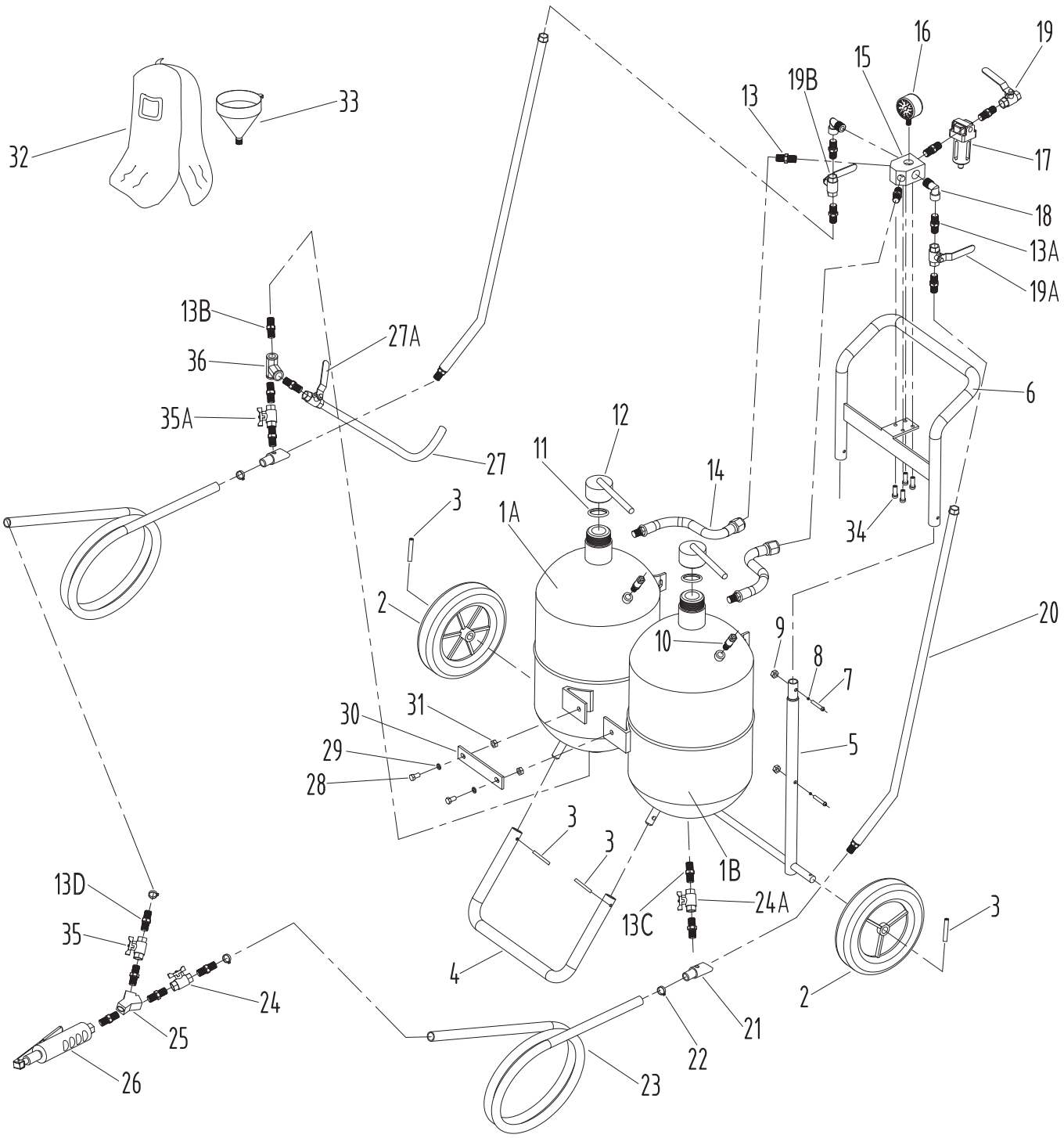
Part	Description	Qty
19	Air Supply Valve 3/8"	1
19A	Red Throttle Valve 3/8"	1
19B	Green Throttle Valve 3/8"	1
20	Air Hose	2
21	Abrasive Outlet Manifold	2
22	Hose Clamp	4
23	Abrasive Hose	2
24	Red Flow Valve 3/8" x 3/8"	1
24A	Red Abrasive Valve 1/2" x 1/2"	1
25	Y-Connector	1
26	Blast Gun	1
27	Purge Hose	1
27A	Purge Valve 3/8"	1
28	Hex Head Screw	2
29	Washer	2
30	Connecting Plate	1
31	Nut	2
32	Blast Hood	1
33	Funnel	1
34	Cap Screw	4
35	Green Flow Valve 3/8" x 3/8"	1
35A	Green Abrasive Valve 3/8" x 3/8"	1
36	T-Connector 3/8"	1

Record Product's Serial Number Here:_____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

Assembly Diagram



Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

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This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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